

NOTIFICATION OF TRANSMITTAL OF COPIES OF TRANSLATION OF THE INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 72.2)

FIGHT THE HATEKINA	AL BUREAU
To:	
HERDEN, Andreas Blumbach, Kramer & P Alexandrastrasse 5 65187 Wiesbaden ALLEMAGNE	PATENTCONSULT WIESBADEN 13. Dez. 2004
	FRIST

Date of mailing (day/month/year)
09 December 2004 (09.12.2004)

Applicant's or agent's file reference

Applicant's or agent's file reference 03SGL0136WOP

IMPORTANT NOTIFICATION

TERM

International application No. PCT/EP2003/003882

International filing date (day/month/year) 15 April 2003 (15.04.2003)

Applicant

· SCHOTT AG et al

1. . Transmittal of the translation to the applicant.

The International Bureau transmits herewith a copy of the English translation made by the International Bureau of the international preliminary examination report established by the International Preliminary Examining Authority.

2. Transmittal of the copy of the translation to the elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following elected Offices requiring such translation:

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3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report.

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Yolaine Cussac

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Translation

PATENT COOPERATION TREAT



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 03SGL0136WOP	FOR FURTHER ACTION		cation of Transmittal of International Examination Report (Form PCT/IPEA/416)
International application No	International filing date (day/r	nonth/year)	Priority date (day/month/year)
PCT/EP2003/003882	15 April 2003 (15.04	1.2003)	15 April 2002 (15.04.2002)
International Patent Classification (IPC) or na C23C 14/10	tional classification and IPC		
Applicant	SCHOTT AG		
This international preliminary examinand is transmitted to the applicant according to the acco		l by this Intern	ational Preliminary Examining Authority
2. This REPORT consists of a total of	5 sheets, includi	ng this cover s	heet.
This report is also accompanie amended and are the basis for 70.16 and Section 607 of the A	this report and/or sheets conta	ining rectifica	on, claims and/or drawings which have been tions made before this Authority (see Rule
These annexes consist of a tot	al of sheets.	÷ ·	
3. This report contains indications relat	ing to the following items:		•
I Basis of the report			
II Priority		• .	
III Non-establishment o	f opinion with regard to novelt	y, inventive st	ep and industrial applicability
Lack of unity of invention			
Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
VI Certain documents c	ited		
VII Certain defects in the	e international application		
VIII Certain observations	on the international applicatio	n	
			. V
Date of submission of the demand	Date o	f completion of	of this report
29 August 2003 (29.08.	2003)	26 A	August 2004 (26.08.2004)
Name and mailing address of the IPEA/EP	Autho	rized officer	
Facsimile No.	Telepl	ione No.	

INTERNATIONAL PRELIMARY EXAMINATION REPORT

Internal application No.
rCT/EP2003/003882

I. Basis of the report			
1. With regard to the elements of the international application:*			
the international application as originally filed			
the description:			
pages 1-14	, as originally filed		
pages	; filed with the demand		
pages , filed with the letter of	, mod with the definate		
577			
the claims:			
pages	, as originally filed		
	h any statement under Article 19		
pages	, filed with the demand		
pages 1-32 , filed with the letter of	29 June 2004 (29.06.2004)		
the drawings:	•		
pages 1/5-5/5	, as originally filed		
	, filed with the demand		
pages, filed with the letter of			
the sequence listing part of the description:			
pages	, as originally filed		
	, filed with the demand		
pages, filed with the letter of			
the language of a translation furnished for the purposes of international search (under Rule 2 the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary exactor 55.3).	which is: 23.1(b)). annination (under Rule 55.2 and/		
3. With regard to any nucleotide and/or amino acid sequence disclosed in the international preliminary examination was carried out on the basis of the sequence listing:	al application, the international		
contained in the international application in written form.			
filed together with the international application in computer readable form.			
furnished subsequently to this Authority in written form.			
furnished subsequently to this Authority in computer readable form.			
The statement that the subsequently furnished written sequence listing does not go international application as filed has been furnished.	beyond the disclosure in the		
The statement that the information recorded in computer readable form is identical to	the written sequence listing has		
been furnished.			
4. The amendments have resulted in the cancellation of:			
the description, pages			
the claims, Nos.			
the drawings, sheets/fig	.*.		
This report has been established as if (some of) the amendments had not been made, since beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	they have been considered to go		
* Replacement sheets which have been furnished to the receiving Office in response to an invitation in this report as "originally filed" and are not annexed to this report since they do not co and 70.17). ** Any replacement sheet containing such amendments must be referred to under item 1 and annexed	ontain amendments (Rule 70.16		

INTERNATIONAL PRE INARY EXAMINATION REPORT

International	application No.	
PEP	03/03882	

V. .	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial a	pplicability;
	citations and explanations supporting such statement	••

	citations and explanations supporting such statement			
1.	Statement	× .		
,	Novelty (N)	Claims	1-32	YES
		Claims		NO .
	Inventive step (IS)	Claims	1-32	YES
	. •	Claims		NO
	Industrial applicability (IA)	Claims	1-32	YES
		Claims		NO

Citations and explanations

This report makes reference to the following documents:

WOO-BEOM CHOI ET AL: "Anodic bonding technique under D1: low temperature and low voltage using evaporated glass", Journal of Vacuum Science & Technology B (Microelectronics and Nanometer Structures), Vol. 15, No. 2, pages 477-481, March-April 1997

D2: CH 387 175 A (WESTERN ELECTRIC CO) 31 January 1965 (1965-01-31)

D3: US-A-4 374 391 (CAMLIBEL IRFAN ET AL) 15 February 1983 (1983-02-15)

Document D1 is considered to constitute the prior art closest to the subject matter of claim 1 and discloses (the references in parentheses are to that document): a method for forming the housing of electronic components (abstract; page 481, last sentence) in which an evaporated glass source is used to apply a glass layer on one side of the substrate by vaporisation (page 477, Chapter II). The subject matter of claim 1 therefore differs from the known method in that the opposite side of the substrate is then processed so as to generate line contacts. Similarly, the method as per claim 1 differs from the methods in documents D2 (see claims I; II, 1.1; page 7, line 67 to

page 8, line 46) and D3 (see column 4, lines 44-51). The subject matter of claim 1 is therefore novel (PCT Article 33(2)).

The present invention can therefore be considered to address the problem of producing connection structures to electronic components already protected by a layer of evaporated glass. The solution to this problem, as proposed in claim 1 of the present application, involves an inventive step (PCT Article 33(3)) because this method cannot be derived from the prior art.

Claims 2-22 are dependent on claim 1 and therefore likewise meet the PCT novelty and inventive step requirements.

Although documents D1, D2 and D3 describe electronic components entirely or partially coated with an evaporated glass layer, the subject matter of claim 23 is not known from or suggested by these citations. According to claim 23, the connection structures on the component are located, owing to its production process, on the side of the substrate away from the glass layer. Claim 23 therefore meets the PCT novelty and inventive step requirements.

Claims 24-32 are dependent on claim 23 and therefore likewise meet the PCT novelty and inventive step requirements.

Since the invention is used in the electronic industry, it is industrially applicable.